



1998 Toxics Release Inventory

NORTH DAKOTA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	2,301,759	9,630,257	11,932,016
Air Emissions	2,255,973	1,405,179	3,661,152
Surface Water Discharges	43,280	59,011	102,291
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	2,506	8,166,067	8,168,573
Off-site Releases (Transfers Off-site to Disposal)*	147,721	11,302,469	11,450,190
Total On- and Off-site Releases	2,449,480	20,932,726	23,382,206
Recycled On-site	131,875	0	131,875
Recycled Off-site	683,398	2,500	685,898
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	37,540	0	37,540
Treated On-site	4,581,936	832,000	5,413,936
Treated Off-site**	559,345	0	559,345
Quantity Released On- and Off-site***	2,467,835	21,396,839	23,864,674
Total Production-related Waste Managed	8,461,929	22,231,339	30,693,268
Total Non-production-related Waste Managed	12,700	15	12,715

Transfers Off-site for Further Waste Management/Disposal

Recycling	683,417	2,500	685,917
Energy Recovery	51,794	0	51,794
Treatment	4,458	0	4,458
Publicly Owned Treatment Works (POTWs)	587,717	0	587,717
Metals and Metal Compounds*	17	0	17
Non-metal TRI Chemicals**	587,700	0	587,700
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	148,200	11,302,469	11,450,669
Total Transfers Off-site for Further Waste Management/Disposal	1,475,586	11,304,969	12,780,555

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

**** Transfers reported without a valid waste management code.

For More Information . . .

State Contact:

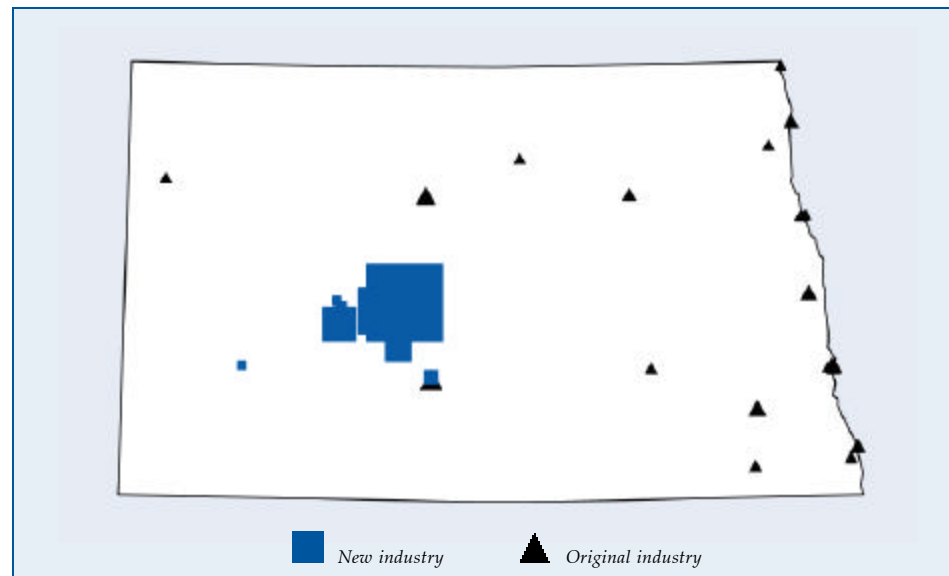
Ray DeBoer
(701) 328-8100
Fax: (701) 328-8181

EPA Regional Contact:

Joyel Dhieux
(303) 312-6447
Fax: (303) 312-6044

To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of North Dakota. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	638,244
Square Miles	68,994
Total Facilities	43
Total Forms	182
Form As	33

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	47	29	39
Pounds	2,449,480	20,932,726	23,382,206
National Rank for Total On-site Releases**			
Rank	47	39	44
Pounds	2,301,759	9,630,257	11,932,016
National Rank for Total Releases within State***			
Rank	47	29	39
Pounds	2,480,195	20,758,755	23,238,950
National Rank for Production-related Waste Managed			
Rank	49	34	48
Pounds	8,461,929	22,231,339	30,693,268

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



1998 Toxics Release Inventory

NORTH DAKOTA

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
110-54-3	n-Hexane	749,191	0	0	0	0	749,191	0	0	0
7664-41-7	Ammonia	610,371	15,211	0	750	45	626,377	0	0	45
100-42-5	Styrene	157,113	0	0	0	0	157,113	0	0	0
1330-20-7	Xylene (mixed isomers)	153,639	0	0	0	55	153,694	5	0	55
108-88-3	Toluene	125,144	0	0	1	0	125,145	1	0	0
—	Glycol ethers	89,431	0	0	0	0	89,431	1,500	0	0
7664-39-3	Hydrogen fluoride	69,150	0	0	0	0	69,150	0	0	0
115-07-1	Propylene	49,020	0	0	0	0	49,020	0	0	0
7439-96-5	Manganese	1,421	33	0	0	40,641	42,095	880	40,641	0
71-43-2	Benzene	39,180	0	0	0	1	39,181	0	0	1

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Barium compounds	36,330	23,005	0	6,269,000	8,959,748	15,288,083	0	8,809,748	150,000
—	Manganese compounds	15,092	16,000	0	750,600	1,417,937	2,199,629	0	1,398,937	19,000
7664-39-3	Hydrogen fluoride	563,000	0	0	0	0	563,000	0	0	0
7647-01-0	Hydrochloric acid	407,600	0	0	0	0	407,600	0	0	0
—	Arsenic compounds	6,697	0	0	139,820	224,297	370,814	0	223,757	540
—	Chromium compounds	4,488	0	0	98,100	191,486	294,074	0	188,986	2,500
—	Copper compounds	527	20,000	0	103,280	166,002	289,809	0	164,702	1,300
7664-93-9	Sulfuric acid	266,860	0	0	0	0	266,860	0	0	0
7440-39-3	Barium	2,506	0	0	240,000	3,800	246,306	0	3,800	0
—	Antimony compounds	1,305	0	0	99,600	67,000	167,905	0	67,000	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



1998 Toxics Release Inventory

NORTH DAKOTA

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Release in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Amoco Mandan Refy., Mandan, Morton	507,862	1,070	0	0	0	1,756	510,688	440	3,387
ADM Processing, Velva, Mc Henry	387,700	0	0	0	0	0	387,700	0	0
ADM Northern Sun Div., Enderlin, Ransom	267,800	0	0	0	0	0	267,800	0	0
American Crystal Sugar Co., Hillsboro, Traill	247,330	250	0	0	0	0	247,580	0	0
Minn-Dak Farmers Co-Op., Wahpeton, Richland	180,241	28,333	0	0	0	0	208,574	0	0
American Crystal Sugar Co., Drayton, Pembina	164,790	13,570	0	0	0	750	179,110	0	0
Nordic Fiberglass,Inc., Devils Lake, Ramsey	134,847	0	0	0	0	0	134,847	0	0
Case Corp., Fargo, Cass	85,307	57	0	0	0	0	85,364	1,127	0
Melroe Co., Gwinner, Sargent	74,195	0	0	0	0	0	74,195	33,739	0
TIC United Corp. Wil-Rich Div., Wahpeton, Richland	59,099	0	0	0	0	0	59,099	108,711	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Great River Energy, Coal Creek Station, Underwood, Mc Lean	665,075	0	0	0	0	3,330,400	3,995,475	1,895,800	0
Leland Olds Station, Stanton, Mercer	142,701	5	0	0	0	2,077,420	2,220,126	803,300	173,971
Otter Tail Power Co. Coyote Station, Beulah, Mercer	159,919	0	0	0	0	1,333,740	1,493,659	302,282	0
Milton R Young Station, Center, Oliver	182,289	0	0	0	0	878,400	1,060,689	2,809,066	0
Great River Energy Stanton Station, Stanton, Mercer	78,505	59,000	0	0	0	182,400	319,905	656,600	0
R.M. Heskett Station, Mandan, Morton	26,506	6	0	0	0	267,000	293,512	4,450	0
Antelope Valley Station, Beulah, Mercer	149,412	0	0	0	0	0	149,412	4,657,000	0
Falkirk Mining Co., Underwood, Mc Lean	0	0	0	0	0	75,220	75,220	0	0
Coteau Properties Co. Freedom Mine, Beulah, Mercer	0	0	0	0	0	21,487	21,487	0	0
HCI Dyce Chemical Inc., Dickinson, Stark	772	0	0	0	0	0	772	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



1998 Toxics Release Inventory

NORTH DAKOTA

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Amoco Mandan Refy., Mandan, Morton	131,000	2,483	0	308	1,461,000	365	516,770	2,111,926	2,700
ADM Processing, Velva, Mc Henry	0	0	0	0	0	0	400,414	400,414	0
ADM Northern Sun Div., Enderlin, Ransom	0	0	0	0	0	400	267,800	268,200	0
American Crystal Sugar Co., Hillsboro, Traill	0	0	0	0	247,080	0	247,080	494,160	0
Minn-Dak Farmers Co-Op., Wahpeton, Richland	0	0	0	0	2,676,831	0	208,574	2,885,405	0
American Crystal Sugar Co., Drayton, Pembina	0	0	0	0	149,038	0	177,610	326,648	0
TIC United Corp. Wil-Rich Div., Wahpeton, Richland	0	107,236	0	2,879	0	0	167,139	277,254	0
Nordic Fiberglass, Inc., Devils Lake, Ramsey	0	0	0	0	0	0	134,847	134,847	0
Case Corp., Fargo, Cass	0	435,000	0	6,020	0	117	86,472	527,609	0
Melroe Co., Gwinner, Sargent	0	0	0	0	11,402	73,945	74,286	159,633	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Great River Energy, Coal Creek Station, Underwood, Mc Lean	0	0	0	0	0	0	6,377,000	6,377,000	15
Antelope Valley Station, Beulah, Mercer	0	0	0	0	0	0	4,796,100	4,796,100	0
Milton R Young Station, Center, Oliver	0	0	0	0	0	0	3,814,000	3,814,000	0
Leland Olds Station, Stanton, Mercer	0	0	0	0	0	0	3,229,000	3,229,000	0
Otter Tail Power Co. Coyote Station, Beulah, Mercer	0	0	0	0	619,000	0	1,805,660	2,424,660	0
Great River Energy Stanton Station, Stanton, Mercer	0	0	0	0	0	0	973,000	973,000	0
R.M. Heskett Station, Mandan, Morton	0	2,500	0	0	213,000	0	304,600	520,100	0
Falkirk Mining Co., Underwood, Mc Lean	0	0	0	0	0	0	75,220	75,220	0
Coteau Properties Co. Freedom Mine, Beulah, Mercer	0	0	0	0	0	0	21,487	21,487	0
HCI Dyce Chemical Inc., Dickinson, Stark	0	0	0	0	0	0	772	772	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.